

Junzhi Liu

List of Publications by Year in descending order

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71
papers

3,566
citations

126708

33
h-index

138251

58
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72
all docs

72
docs citations

72
times ranked

3436
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Electrocatalysts for Oxygen Reduction Derived from Cobalt Porphyrin-Based Conjugated Mesoporous Polymers. <i>Advanced Materials</i> , 2014, 26, 1450-1455.	11.1	425
2	Toward Cove-Edged Low Band Gap Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 6097-6103.	6.6	299
3	Synthesis and Characterization of π -Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019, 141, 10621-10625.	6.6	165
4	Synthetic Tailoring of Graphene Nanostructures with Zigzag-Edged Topologies: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23386-23401.	7.2	133
5	Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5637-5642.	7.2	128
6	Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. <i>ACS Nano</i> , 2018, 12, 11917-11927.	7.3	118
7	Quantum units from the topological engineering of molecular graphenoids. <i>Science</i> , 2019, 366, 1107-1110.	6.0	116
8	Open-Shell Nonbenzenoid Nanographenes Containing Two Pairs of Pentagonal and Heptagonal Rings. <i>Journal of the American Chemical Society</i> , 2019, 141, 12011-12020.	6.6	112
9	Topological Defect-Induced Magnetism in a Nanographene. <i>Journal of the American Chemical Society</i> , 2020, 142, 1147-1152.	6.6	106
10	Tetrabenzo[a,f,j,o]perylene: A Polycyclic Aromatic Hydrocarbon With An Open-Shell Singlet Biradical Ground State. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12442-12446.	7.2	103
11	Unexpected Scholl Reaction of 6,7,13,14-Tetraarylbenzo[k]tetraphene: Selective Formation of Five-Membered Rings in Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2016, 138, 2602-2608.	6.6	103
12	Toward Full Zigzag-Edged Nanographenes: <i>peri</i> -Tetracene and Its Corresponding Circumanthracene. <i>Journal of the American Chemical Society</i> , 2018, 140, 6240-6244.	6.6	98
13	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3280-3284.	7.2	90
14	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6753-6757.	7.2	72
15	On-Surface Cyclization of <i>ortho</i> -Dihalotetracenes to Four- and Six-Membered Rings. <i>Journal of the American Chemical Society</i> , 2017, 139, 17617-17623.	6.6	68
16	Fused Dibenzo[a,m]rubicene: A New Bowl-Shaped Subunit of C ₇₀ Containing Two Pentagons. <i>Journal of the American Chemical Society</i> , 2016, 138, 8364-8367.	6.6	66
17	Temperature-Dependent Multidimensional Self-Assembly of Polyphenylene-Based π -Rod-Coil-Graft Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 11602-11605.	6.6	63
18	Defective Nanographenes Containing Seven-Five-Seven (7 π -5 π -7)-Membered Rings. <i>Journal of the American Chemical Society</i> , 2021, 143, 2353-2360.	6.6	62

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19	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019, 141, 7726-7730.	6.6	61
20	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8873-8879.	7.2	61
21	On-Surface Synthesis of Non-Benzenoid Nanographenes by Oxidative Ring-Closure and Ring-Rearrangement Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13565-13572.	6.6	58
22	Extended and Curved Antiaromatic Polycyclic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 7513-7521.	6.6	55
23	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2020, 142, 18293-18298.	6.6	50
24	Maßgeschneiderte Synthese von Graphennanostrukturen mit Zickzack-Änderungen. <i>Angewandte Chemie</i> , 2020, 132, 23591-23607.	1.6	50
25	Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. <i>Angewandte Chemie</i> , 2020, 132, 5686-5691.	1.6	47
26	Designer spin order in diradical nanographenes. <i>Nature Communications</i> , 2020, 11, 6076.	5.8	47
27	NBN-embedded Polycyclic Aromatic Hydrocarbons Containing Pentagonal and Heptagonal Rings. <i>Organic Letters</i> , 2019, 21, 1354-1358.	2.4	45
28	Synthetic Engineering of Graphene Nanoribbons with Excellent Liquid-Phase Processability. <i>Trends in Chemistry</i> , 2019, 1, 549-558.	4.4	44
29	Synthesis of Defective Nanographenes Containing Joined Pentagons and Heptagons. <i>Advanced Science</i> , 2022, 9, e2201000.	5.6	43
30	Tetrabenzo[a,f,j,o]perylene: A Polycyclic Aromatic Hydrocarbon With An Open-Shell Singlet Biradical Ground State. <i>Angewandte Chemie</i> , 2015, 127, 12619-12623.	1.6	42
31	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie</i> , 2017, 129, 3328-3332.	1.6	40
32	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , 2019, 25, 12074-12082.	1.7	38
33	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019, 10, 4025-4031.	3.7	35
34	Efficient electrocatalytic acetylene semihydrogenation by electron-rich metal sites in N-heterocyclic carbene metal complexes. <i>Nature Communications</i> , 2021, 12, 6574.	5.8	30
35	NBN-Doped Bis-Tetracene and Peri-Tetracene: Synthesis and Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26115-26121.	7.2	29
36	Benzo-Extended Cyclohepta[def]fluorene Derivatives with Very Low-Lying Triplet States. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	28

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37	Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments. <i>Journal of the American Chemical Society</i> , 2022, 144, 228-235.	6.6	28
38	One-Pot Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons via 1,4-Boron Migration. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2833-2838.	7.2	27
39	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13853-13858.	7.2	27
40	Building Pentagons into Graphenic Structures by On-Surface Polymerization and Aromatic Cyclodehydrogenation of Phenyl-Substituted Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17588-17593.	1.5	24
41	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13281-13287.	7.2	23
42	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2020, 132, 8958-8964.	1.6	20
43	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-Doped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25695-25700.	7.2	20
44	A Molecular Transformer: A π -Conjugated Macrocycle as an Adaptable Host. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11814-11818.	7.2	19
45	Synthesis of Dibenzo[<i>hi, st</i>]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie</i> , 2017, 129, 6857-6861.	1.6	18
46	Pyrene-Fused <i>s</i> -Indacene. <i>Journal of Organic Chemistry</i> , 2018, 83, 6633-6639.	1.7	17
47	Tailoring Magnetic Features in Zigzag-Edged Nanographenes by Controlled Diels-Alder Reactions. <i>Chemistry - A European Journal</i> , 2020, 26, 7497-7503.	1.7	17
48	One-Pot Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons via 1,4-Boron Migration. <i>Angewandte Chemie</i> , 2021, 133, 2869-2874.	1.6	17
49	Dipyrene-Fused Dicyclopenta[<i>a</i>], [<i>f</i>]naphthalenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 215-223.	1.7	16
50	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020, 142, 10673-10680.	6.6	16
51	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie</i> , 2020, 132, 13383-13389.	1.6	15
52	Bottom-Up Synthesis of Nitrogen-Doped Polycyclic Aromatic Hydrocarbons. <i>Synlett</i> , 2020, 31, 211-222.	1.0	13
53	Sulfur-Doped Nanographenes Containing Multiple Subhelicenes. <i>Organic Letters</i> , 2021, 23, 2069-2073.	2.4	13
54	Solution Synthesis and Characterization of a Long and Curved Graphene Nanoribbon with Hybrid Cove "Armchair" Gulf Edge Structures. <i>Advanced Science</i> , 2022, 9, e2200708.	5.6	12

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55	Nanographenes and Graphene Nanoribbons with Zigzag-Edged Structures. <i>Advances in Polymer Science</i> , 2017, , 1-32.	0.4	11
56	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie</i> , 2021, 133, 13972-13977.	1.6	11
57	Large Acene Derivatives with B ^N Lewis Pair Doping: Synthesis, Characterization, and Application. <i>Organic Letters</i> , 2022, 24, 1877-1882.	2.4	8
58	Polycyclic Aromatic Hydrocarbons Containing A Pyrrolopyridazine Core. <i>ChemPlusChem</i> , 2019, 84, 613-618.	1.3	7
59	Dynamical nuclear decoupling of electron spins in molecular graphenoid radicals and biradicals. <i>Physical Review B</i> , 2020, 101, .	1.1	7
60	A Molecular Transformer: A π -Conjugated Macrocycle as an Adaptable Host. <i>Angewandte Chemie</i> , 2021, 133, 11920-11924.	1.6	7
61	Synthetic tuning of the quantum properties of open-shell radicaloids. <i>CheM</i> , 2021, 7, 1363-1378.	5.8	6
62	Fabrication of sulfur-doped cove-edged graphene nanoribbons on Au(111)*. <i>Chinese Physics B</i> , 2021, 30, 077306.	0.7	6
63	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-doped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021, 133, 25899.	1.6	6
64	One-pot synthesis of dicyclopenta-fused peropyrene via a fourfold alkyne annulation. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 791-797.	1.3	5
65	NBN-doped nanographene embedded with five- and seven-membered rings on Au(111) surface*. <i>Chinese Physics B</i> , 2021, 30, 056802.	0.7	4
66	NBN-doped Bis-Tetracene and Peri-Tetracene: Synthesis and Characterization. <i>Angewandte Chemie</i> , 0, , .	1.6	4
67	Synthesis and Characterization of AIE-Active B ^N -Coordinated Phenalene Complexes. <i>Organic Materials</i> , 2020, 02, 240-247.	1.0	3
68	Synthesis of Donor-Acceptor π -Conjugated Macrocycles by Post-Functionalization ⁺ . <i>Chinese Journal of Chemistry</i> , 2021, 39, 2705-2710.	2.6	3
69	Benzo-Extended Cyclohepta[]fluorene Derivatives with Very Low-Lying Triplet States. <i>Angewandte Chemie</i> , 0, , .	1.6	3
70	Phenyl-Linked Anthracene-Based Macrocycles with Geometrically Tunable Optical Properties. <i>Organic Materials</i> , 2020, 02, 336-341.	1.0	2
71	Toward Zigzag-Edged Helical Nanographene Based on [7]Helicene. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1216-1220.	1.7	1